

## Unit 3 - Week 2: Data Collection

### Course outline

#### How to access the portal?

#### Week 1: Introduction to Learning Analytics

#### Week 2: Data Collection

- Lecture 5 : Data Collection
- Lecture 6 : Data Collection in MOOC
- Lecture 7: Data Collection in TELE
- Lecture 8 : Multichannel Data
- Lecture 9 : Ethics and Data Privacy in LA
- Learning Experience Interaction (LxI) 2
- Learning Extension Trajectories (LxT) 2
- Quiz : Assimilation Quiz 2
- Quiz : Assignment 2
- Weekly Feedback

#### Week 3: Descriptive Analytics

#### Week 4

#### Live Sessions

#### Download Videos

## Assignment 2

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Due on 2019-08-21, 23:59 IST.**

Week 2: Assignment 2

- 1) The stage where raw data is converted into actions/events is called 1 point
- Data pre-processing  
 Data processing  
 Data analysis  
 Data reporting

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Data pre-processing*

- 2) Which of the following sensors can be used for educational data collection? 1 point
- Survey questionnaire  
 Click-stream  
 Skin conductance (GSR)  
 Eye tracker

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Skin conductance (GSR)  
Eye tracker*

- 3) Which of the below is true for Multi-Modal data analytics? 1 point
- Not easy to get consent from the participants to collect data using multiple sensors  
 Aligning data from multiple channels is difficult due to the difference in the granularity of data collected  
 Software to integrate data from multiple channels and analyze is not available  
 All of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Aligning data from multiple channels is difficult due to the difference in the granularity of data collected*

- 4) Before conducting studies with participants, which of the following information has to be provided to participants? 1 point
- a. What data is collected  
 b. Why and how it is collected  
 c. How the data is stored  
 d. How it is used  
 a & b, but c is optional  
 a, b & c, but d is optional  
 a, b, c & d

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*a, b, c & d*

- 5) You are conducting a study using MEdLE environment in a laboratory. You plan to collect both video and audio data for your analysis. You have given a consent form to students, seeking their permission to collect data. Out of the 50, 30 give permission to collect their audio and video data. Which of the following options is the ethical option to consider? 1 point
- Do not analyze any participants' audio or video data, since some have not given consent  
 Analyze everyone's audio and video data, but report only for students who have given consent  
 Collect, analyze and report audio and video data of 30 students who have given consent. Do not collect data of 20 students who have not given consent  
 None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Collect, analyze and report audio and video data of 30 students who have given consent. Do not collect data of 20 students who have not given consent*

- 6) Assume that you are conducting research and collecting learner's interaction in TELE, their facial expression using a web-camera and eye-gaze data. Which data you can store beyond five years in a secured server after obtaining the required permission? 1 point
- a. Facial expressions  
 b. Eye-gaze data  
 Both a and b  
 None of the above

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*b. Eye-gaze data*

- 7) You are conducting a research study for Class 10 students. You are not collecting and storing any data from students. You should get consent from: 1 point
- Parent only  
 Student only  
 Both parent and student  
 No consent form required since I'm not collecting any data

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Both parent and student*

- 8) In a MOOC course, if you collect data such as time\_stamp, session\_id, student\_id and learner interaction in the forum, of all the learners, which of the following is not true. Make sure you are ethically correct too. 0 points
- You can classify all the users into high, medium, and low engaged participants.  
 You can predict the participants who are likely to fail this course and issue them a warning.  
 You can predict which learner is likely to drop out of the MOOC course in the coming weeks.  
 All of the above are correct.

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*All of the above are correct.*

- 9) Arrange the following in correct order of sequence: 1 point
1. Analyze data
  2. Pre-process data
  3. Collect data
  4. Get approval from Ethics Committee to conduct research and collect data
  5. Get participants consent
- 5 --> 4 --> 3 --> 2 --> 1  
 4 --> 3 --> 5 --> 2 --> 1  
 3 --> 4 --> 5 --> 2 --> 1  
 4 --> 5 --> 3 --> 2 --> 1

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*4 --> 5 --> 3 --> 2 --> 1*

- 10) Which of the following is **not** a valid principle of Ethics in Learning Analytics? 1 point  
(Note: Refer Learning Extension Trajectories (LxT) 2 to answer this question)
- Learning analytics as moral practice: focusing not only on what is effective, but on what is appropriate and morally necessary  
 Students as agents: to be engaged as collaborators  
 Students as producer and source of data: mere recipients of interventions and services  
 Student identity and performance as temporal dynamic constructs: provides a snapshot view of a learner at a particular time and context  
 Student Success as a Complex and Multidimensional Phenomenon  
 Transparency as important: regarding the purposes for which data will be used, under what conditions, access to data, and the protection of an individual's identity  
 Learning Analytics as Moral Practice resulting in measuring only  
 That Higher Education Cannot Afford to Not Use Data

No, the answer is incorrect.  
Score: 0

Accepted Answers:  
*Students as producer and source of data: mere recipients of interventions and services  
Learning Analytics as Moral Practice resulting in measuring only*